

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/019271 A1

- (51) International Patent Classification⁷: **C07K 16/42**, 16/28
- (21) International Application Number:
PCT/US2004/025789
- (22) International Filing Date: 10 August 2004 (10.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/495,557 14 August 2003 (14.08.2003) US
- (71) Applicants (for all designated States except US): **WYETH** [US/US]; Five Giralda Farms, Madison, NJ 07940 (US). **LUDWIG INSTITUTE FOR CANCER RESEARCH** [US/US]; 605 Third Avenue, New York, NY 10158 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LIU, Zhanqi** [AU/AU]; 39 South Street, Ascot Vale, VIC (AU). **SCOTT, Andrew, Mark** [AU/AU]; 317 Cotham Road, Kew, VIC (AU). **SMYTH, Fiona, Elizabeth** [AU/AU]; 3 Lynne Court, North Balwyn, VIC (AU).
- (74) Agent: **BARNHARD, Elizabeth, M.**; Wyeth, Patent Law Department, Five Giralda Farms, Madison, NJ 07940 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTI-LEWIS Y ANTI-IDIOTYPIC ANTIBODIES AND USES THEREOF

(57) Abstract: This invention provides anti-idiotypic antibodies specific for Anti-Lewis Y monoclonal antibodies. The present invention also directed against an ELISA screening method of mAbs produced by hybridoma clones for specific binding to the variable regions of hu3S193 and the ability of the anti-idiotypic mAB to inhibit hu3S193 binding to Lewis Y antigen. Additionally, the present invention provides a hybridoma capable of producing an anti-idiotypic antibody specific for anti-Lewis Y monoclonal antibody. A further aspect of the invention is to provide a hybridoma, which is specific for anti-Lewis Y monoclonal antibody selected from the group consisting of LMH-1, LMH-2, LMH-3, or LMH-4. The present invention is also directed against a method to detect HAMA, HACA and HAA responses using the antibody of the invention.

WO 2005/019271 A1